

The diagram illustrates a recording/reproduction system architecture, divided into two main functional areas: 10 (Recording) and 30 (Reproduction).

Area 10 (Recording):

- STC GENERATE (15)** and **RECORDING MEDIUM CONTROL (14)** are interconnected.
- PICTURE DATA** is input to **MPEG COMPRESS (12)**.
- AUX** and **AUDIO DATA** are inputs to the system.
- MPEG COMPRESS (12)** outputs to **DRAM (11)**.
- DRAM (11)** is controlled by **DRAM READ CONTROL (13)**.
- DRAM (11)** outputs to **ETN ADD (17)**.
- ETN ADD (17)** outputs to **AUDIO COMPRESS (16)**.
- AUDIO COMPRESS (16)** outputs to **MIXER (18)**.
- MIXER (18)** outputs to **ECC ENCODER (19)**.
- ECC ENCODER (19)** outputs to the recording medium (indicated by a wavy line).

Area 30 (Reproduction):

- PICTURE DATA** is input to **ECC DECODER (31)**.
- ECC DECODER (31)** outputs to **PICTURE DATA SEPARATOR (32)**.
- PICTURE DATA SEPARATOR (32)** outputs to **STORAGE UNIT (33)**.
- STORAGE UNIT (33)** outputs to **DATA READ CONTROL (34)**.
- DATA READ CONTROL (34)** outputs to **MPEG EXPAND (37)**.
- MPEG EXPAND (37)** outputs to **BASE-BAND BUFFER (35)** and **STREAM BUFFER (36)**.
- BASE-BAND BUFFER (35)** and **STREAM BUFFER (36)** output to **TS ENCODE (45)**.
- TS ENCODE (45)** outputs to **TS**.
- TS ENCODE (45)** outputs to **STC INFORMATION (41)**.
- STC INFORMATION (41)** outputs to **STC COMPARE (42)**.
- STC COMPARE (42)** outputs to **STC INCREMENT (41)**.
- STC INCREMENT (41)** outputs to **STC SET VALUE CALCULATE (40)**.
- STC SET VALUE CALCULATE (40)** outputs to **ETN ACQUIRE (39)**.
- ETN ACQUIRE (39)** outputs to **AUX SEPARATOR (38)**.
- AUX SEPARATOR (38)** outputs to **AUDIO DATA SEPARATOR (43)**.
- AUDIO DATA SEPARATOR (43)** outputs to **AUDIO EXPAND (44)**.
- AUDIO EXPAND (44)** outputs to **AUX** and **AUDIO DATA**.

FIG. 1

DATA AMOUNT
IN VBV BUFFER

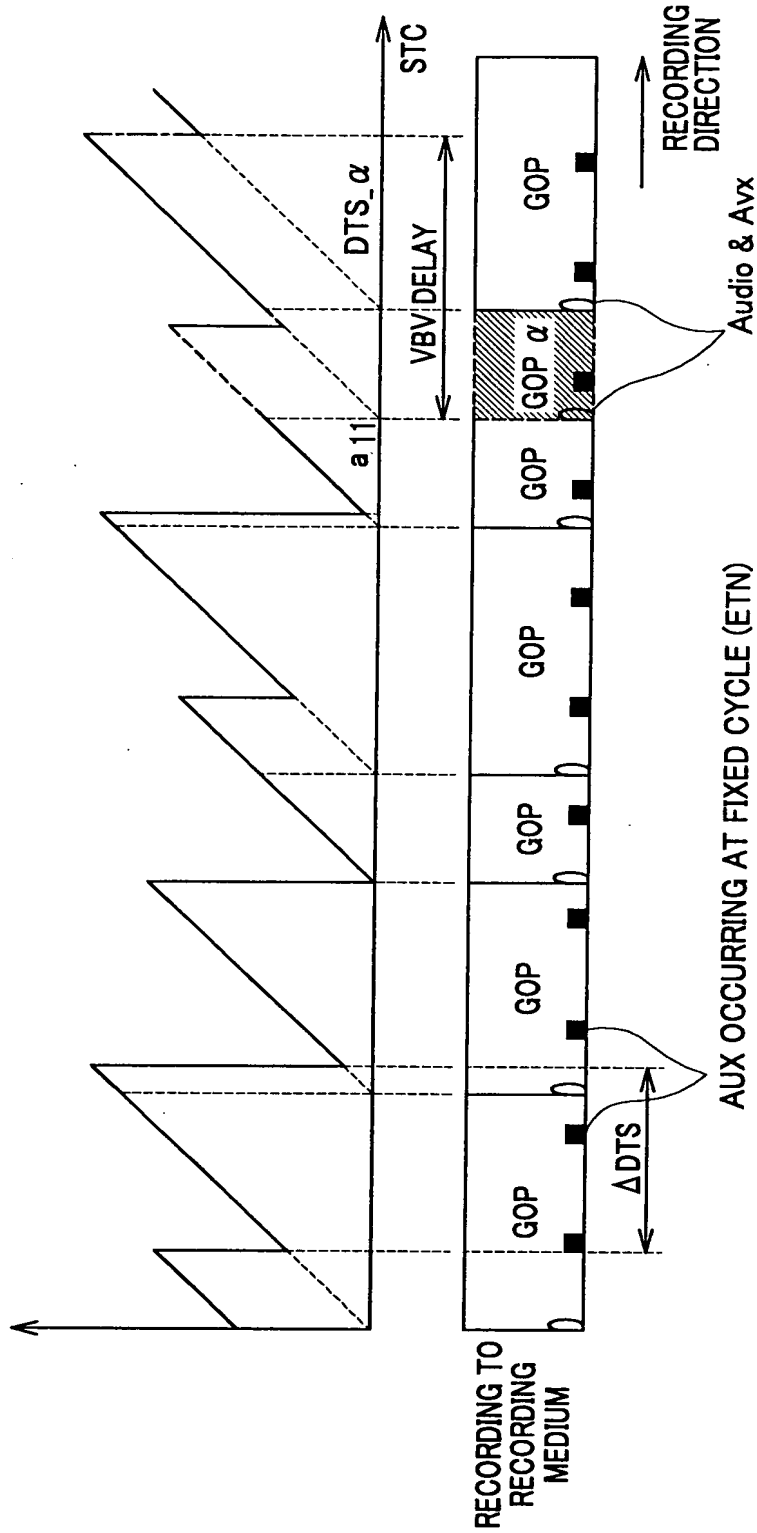


FIG.2A

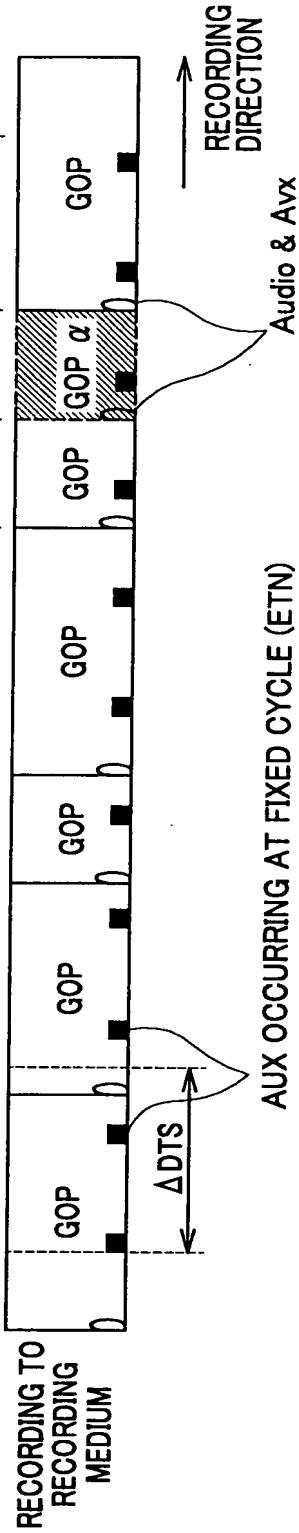


FIG.2B

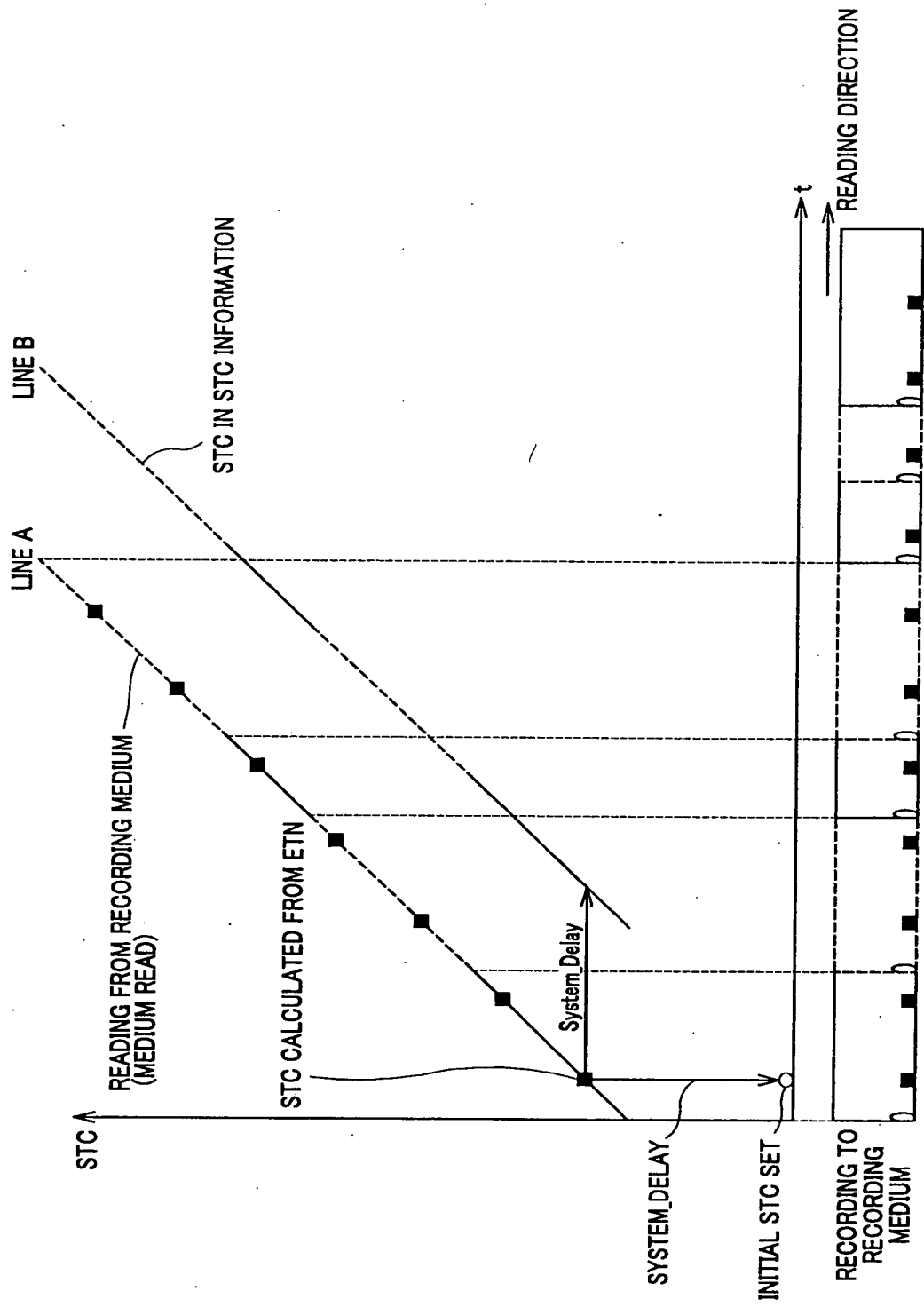


FIG.3

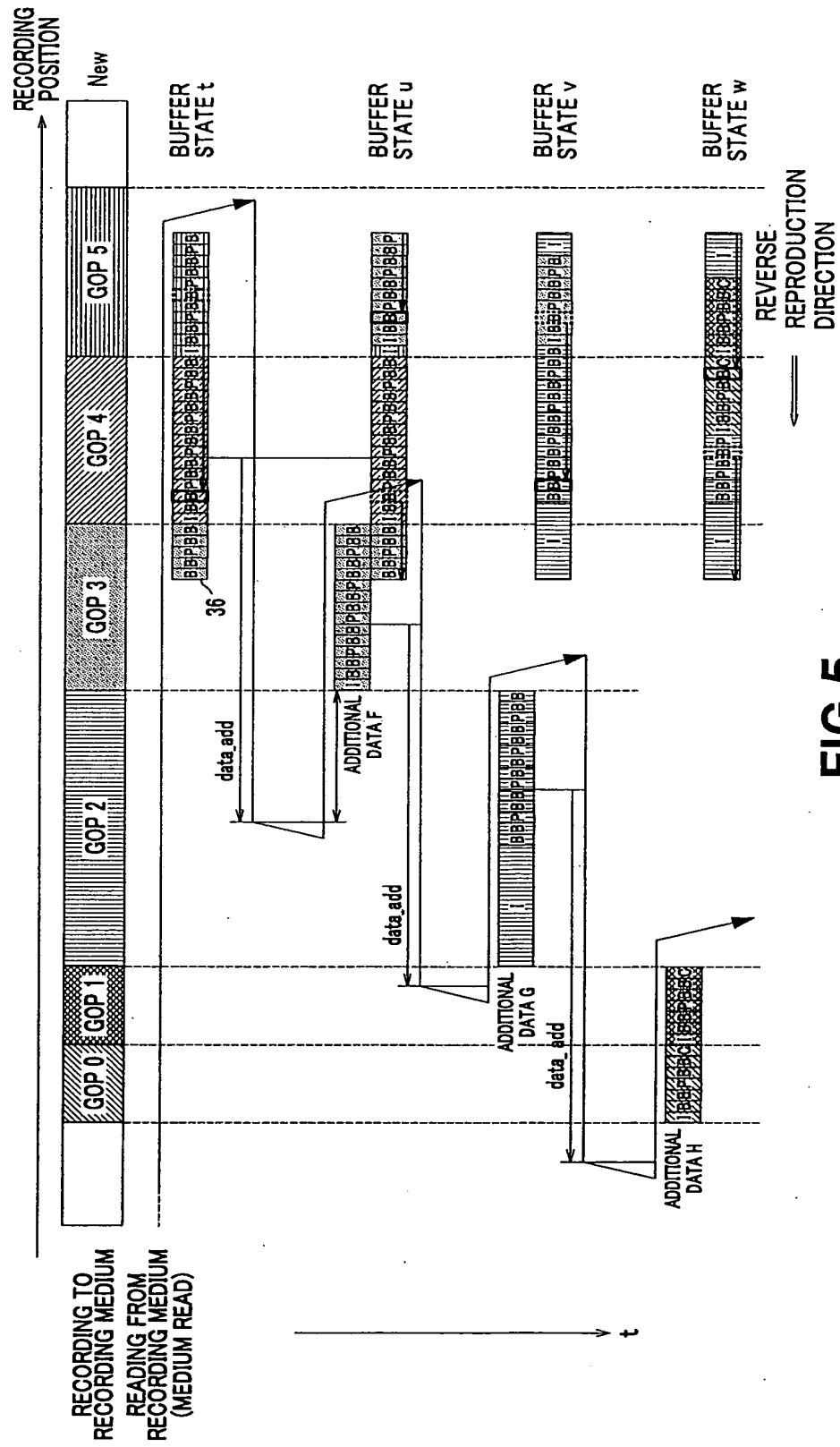


FIG.5

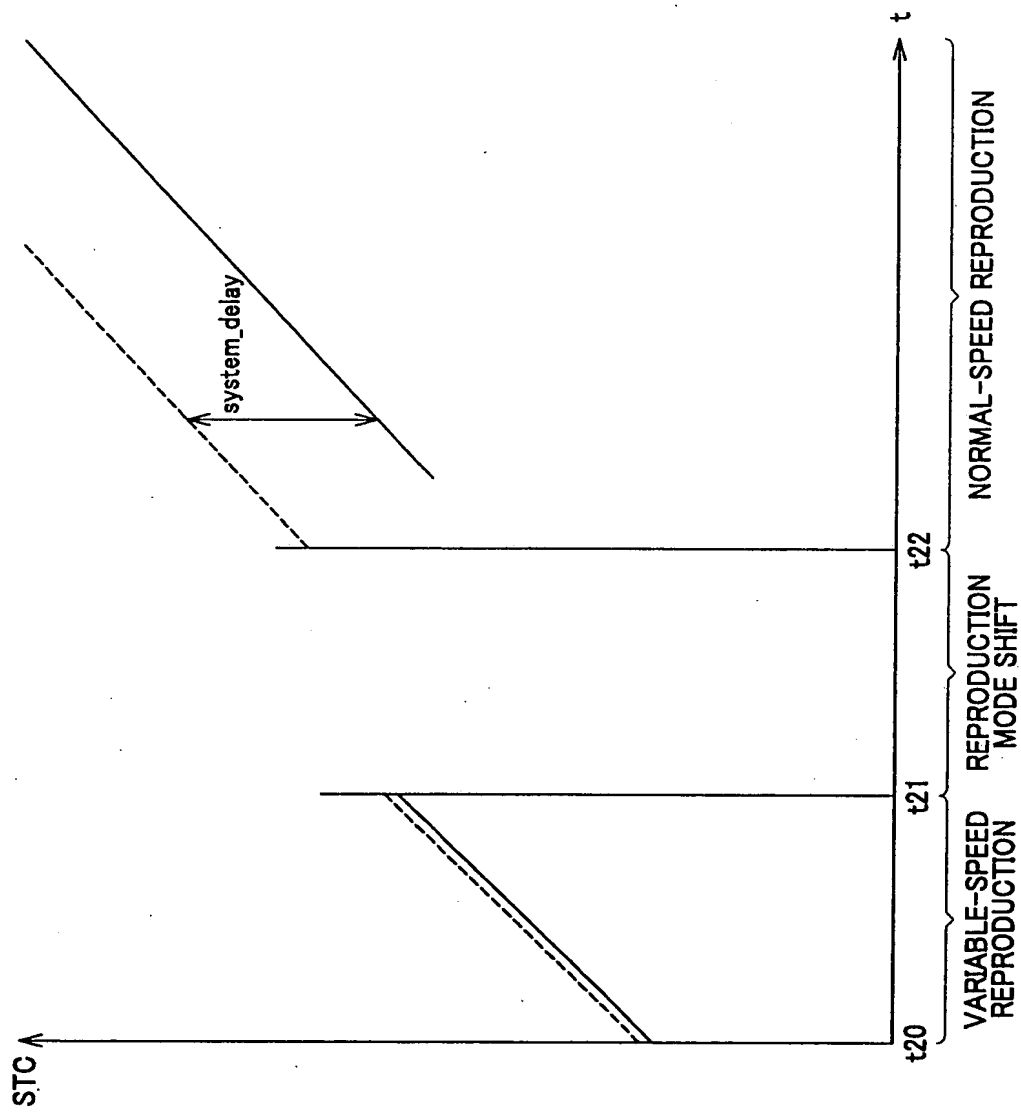


FIG.6

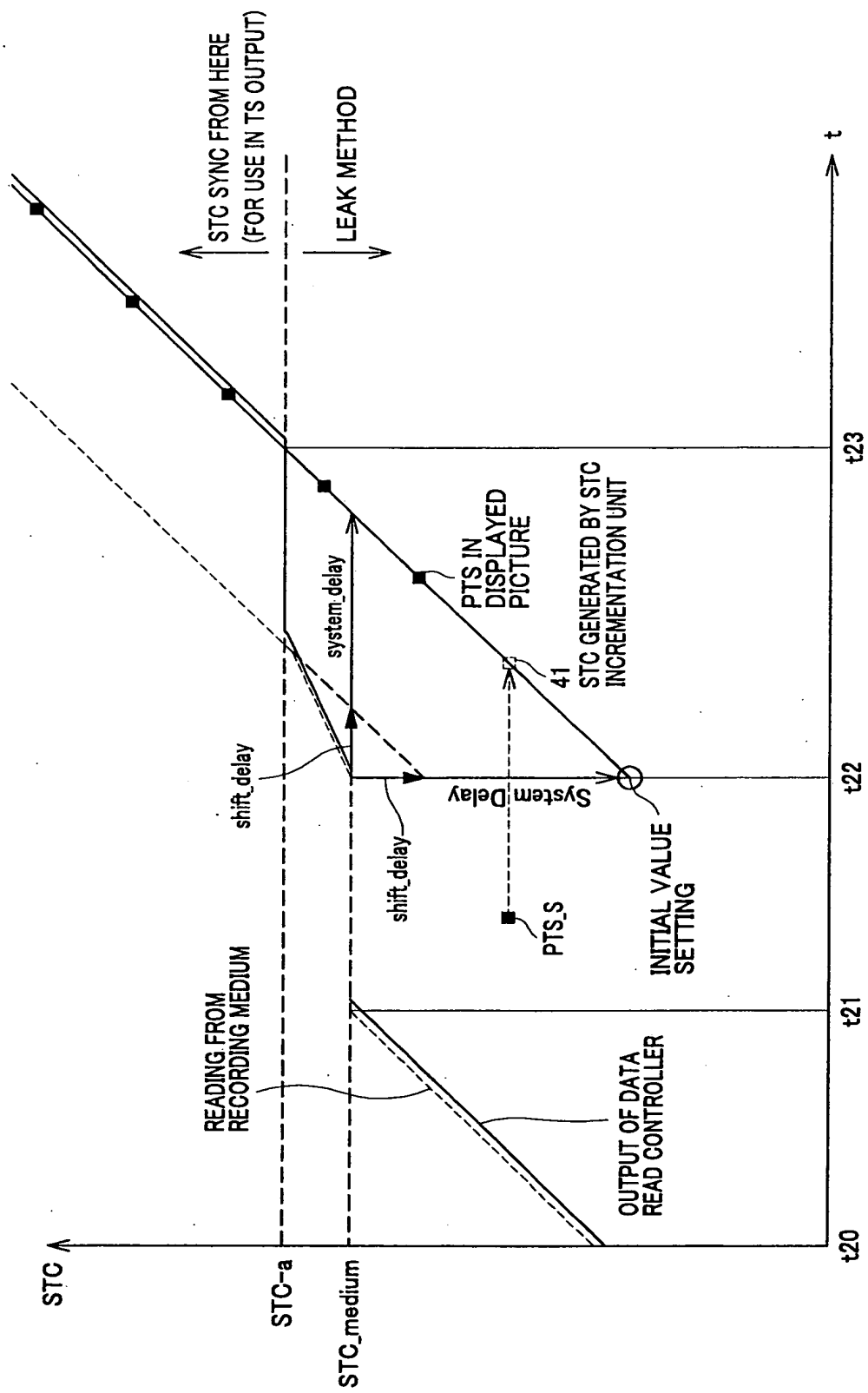


FIG.7

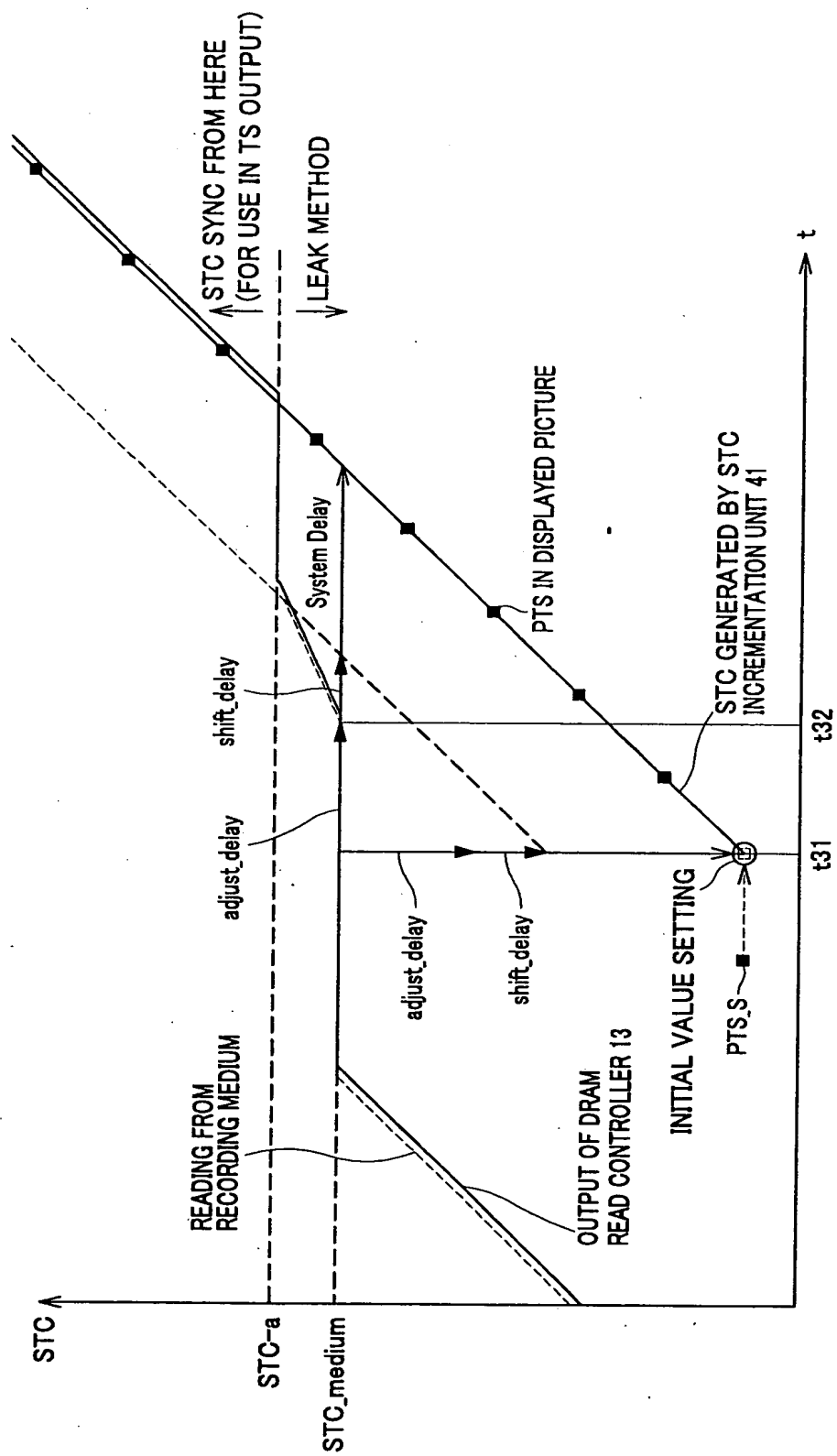


FIG.8